

FORTY-SECOND ANNUAL 1902-GREATEST LOUIS FAIR-1902

Opens Monday, October 6.

Closes Saturday, October 11.

...More Than \$30,000 in Premiums and Purses...

COMPETITION OPEN TO THE WORLD!!

SPACE AND ENTRIES FREE!!

...REDUCED RATES ON ALL RAILROADS...

Catalogue and Beautiful Poster sent to any address Free.

C. A. TILLES,
President.

ST. LOUIS FAIR ASSOCIATION,

JNO. HACHMEISTER,
Secretary.

Live Stock

DATE CLAIMS FOR LIVE STOCK SALES.

Claim dates for public sales will be published in this column free, when such sales are to be advertised in the RURAL WORLD. Otherwise they will be charged at regular rates:

POLAND CHINAS.

October 18-J. Lee White, Palmyra, Mo., Poland Chinas.
Oct. 20-E. E. Axline, at Oak Grove, Mo., Poland Chinas.
October 25-Senitts Bros., Brookfield, Mo., Poland Chinas.
October 30-Hart & Minnie, Poland Chinas, Edinburg, Ill.
October 31-Hedges & Walker, Poland Chinas, Pans, Ill.
November 1-Wm. Plummer, Barclay, Kan.
November 14-Harry E. Lunt, Burden, Kan.
November 15-A. B. Mull, Iola, Kas., Poland Chinas.
December 5-J. D. Jesse, Browning, Mo., Poland Chinas.

BERKSHIRE SWINE.

Oct. 22, 1902-Combination Hog Show sale, Kansas City, Mo.
November 7-Manwaring Bros., Lawrence, Kan.
November 13-Kansas Breeders, Manhattan, Kas.
November 13-Combination sale Berkshires, at Manhattan, Kas.
Nov. 6, 1902-Combination sale, East St. Louis, Ill.; Manager, C. H. C. Anderson, Carlinville, Ill.
Dec. 8, 1902-Combination sale Berkshires, Manager A. J. Lovejoy, Roscoe, Ill.; Clerk, Charles F. Mills, Springfield, Ill.
Feb. 13-Biltmore Farm's annual sale of Berkshire brood sows, Biltmore, N. C.

SHORTHORN SHOWS AND SALES.

October 20-Central Mo. Shorthorn Breeders' Assn. Combination Sale, at Moberly, Mo. E. H. Hurt, Sec., Clifton Hill, Mo.
Oct. 31-J. C. Hall, Hallsville, Mo., sale at Centralia, Mo.
Nov. 11-J. J. Littrell, E. S. Stewart, Dr. J. F. Keith and J. H. Cottingham, at Sturgeon, Mo.

HEREFORDS.

October 21-American Hereford Breeders' Association, Kansas City, Mo. Week of American Royal.
November 18-19-Marshall County (Kas.) Hereford Breeders' Association, Hereford; E. E. Woodman, secretary.

December 4-5-American Hereford Breeders' Association, Chicago, Ill. Week of International Live Stock Exhibition.

December 8-9-J. E. Logan and Benton Gabbert & Sons, Hereford, Kansas City, Mo.
December 10-T. H. Pugh, Hereford, Kansas City.
January 25-31, 1903-T. F. B. Sotham, Hereford, Kansas City, Mo.
January 28-29-Combination sale of Herefords at Chicago.

January 12-17, 1903-C. W. Armour and Jas. A. Funkhouser, Hereford, Kansas.

January 25-29-C. A. Jamison and others, Peoria, Ill., at Chicago.

February 10, 11, 12, 1903-C. A. Stannard and others, Hereford, Kansas City, Mo.

Feb. 24-26, 1903-C. A. Stannard and others, Hereford, Kansas City, Mo.
May 6-7, 1903-Collin Cameron, Hereford, Kansas City, Mo.

ANGUS, GALLOWAYS, SHORTHORNS AND ABERDEEN ANGUS.

April 7-8, 1903-W. C. McGavock, Mgr., Aberdeen Angus, Kansas City, Mo.
SHORTHORNS AND CLYDESDALES.

November 6-Thos. Andrews, Cambridge, Neb.

SHORTHORNS, HEREFORDS AND ABERDEEN ANGUS.

October 31-J. C. Hall, Hallsville, Mo., and J. S. Brown, Mexico, Mo., at Centralia, Mo.

November 4-Chenault Todd, Fayette, Mo.

November 5-W. W. Pollock, Mexico, Mo., Shorthorn Cattle, Poland-China Hogs, Eddie and Harness Horses.

November 6-S. F. Emmons, Mexico, Mo., Shorthorn.

November 10-Branstetter, Robinson and Wright, Shorthorns, at Vandalla, Mo.

November 11-J. J. Littrell, E. S. Stewart, Dr. J. F. Keith and J. H. Cottingham, at Sturgeon, Mo.

November 12-T. W. Ragsdale, T. A. Bailey and Wm. R. Turner, at Shelby, Mo.

November 13-Purdy Bros., Shorthorns, at Harris, Mo.

December 16-F. M. Gifford, Shorthorns, Milford, Kas.

November 19-Cooper County Shorthorn Breeders' Association, Shorthorns, Buncheon, Mo.

November 20-21-North Missouri Combination Sale Association, Trenton, Mo.

November 22-23-Shorthorns, W. P. Harned and F. M. Marshall, Kansas City.

December 5-Combination sale, J. D. Jesse, Mgr., Browning, Mo.

December 16-Gifford Bros., Milford, Kan., at Manhattan, Kan.

February 10-11-Col. G. M. Casey, Clinton, Mo., and T. J. Wornall & Son, Liberty, Mo., at Kansas City.

February 17-D. K. Kellerman & Son, Mound City, Kan., at Kansas City.

February 18-19-M. Forbes & Son, at Chicago, Ill.

H. J. Hughes, Secretary.

STOCK NOTES.

The following letter speaks well for the "drawing" qualities of the RURAL WORLD as an advertising medium:

"COLMAN'S RURAL WORLD: Please find express order for the cost of my sheep advertisement in your paper. It

brings letters-and lots of them. With many thanks.-J. M. Goodman, Albion, Ill., Sept. 3, 1902." Any readers of this paper who have sheep to dispose of will find purchasers, "and lots of them," by using the columns of this paper. There is no class of live stock more valuable than sheep just now, and those wishing to sell have only to make known the fact to find buyers.

Geo. McKerrrow & Sons, Sussex, Wis., advertise their champion flocks of Oxford and Southdown sheep in our columns. These gentlemen have been winners at the leading shows in America for several years, and this year, up to date, they have exhibited at two state fairs. At Missouri State Fair they won 23 champion first and second prizes—all there were in sight. At Iowa state fair they carried off every prize they contended for—23 in number. Those wanting Down sheep, either Oxford or Southdown, will find Messrs. McKerrrow are the men to tie to, and they will treat their customers right.

We have received the premium list of the National Exhibition of Berkshire Swine to be held under the auspices of the American Berkshire Association in connection with the American Royal Cattle and Swine Show, in the show and sale pavilion, at the Stock Yards, Kansas City, Mo., on October 20th, and five succeeding days. At the same time and place 150 registered Berkshires will be sold at public auction. The prize list is on a very liberal scale, and will undoubtedly serve to bring together the finest lot of Berkshires yet shown at one meeting. The officers of the Berkshire Association are: N. H. Gentry, Sedalia, Mo., president; Geo. S. Price, Oskaloosa, Iowa, vice-president; Chas. F. Mills, Springfield, Ill., secretary.

Remember the dispersion sale of J. F. Finley's Shorthorn herd, at Breckenridge, Mo., on Wednesday, September 17th, when he will sell his entire herd of high-bred Shorthorns. These cattle are now in good breeding condition and have always been kept that way. The foundation of this herd is royally bred, from a Bates standpoint, and have been bred either to Bates or Scotch bulls. The two herd bulls are straight Scotch, were imported and will be included in this sale. Those wanting cattle that are regular breeders and money-makers, should attend this sale, and they can get them worth the money. For catalog send to Mr. M. L. Hall, or J. F. Finley, Breckenridge, and make a point of attending this genuine sale of breeding stock.

FORAGE VALUES IN FATTENING STEERS.

Combining Fodder with Clover.

By H. J. Waters, Dean of the Agricultural College, Columbia, Mo.

Editor RURAL WORLD: Our most important result has been obtained from combining the fodder with clover hay so as to supply the protein in which the fodder is so notably deficient. That it is easy to so increase the feeding value of fodder in this way that it will fully equal timothy when fed alone is clearly shown by the results of our experiments.

This appears to be true with cattle on full feed, on half-feed and when fed on roughness exclusively. In all these experiments large, coarse fodder from corn yielding 60 to 70 bushels of grain per acre was used. It was allowed to stand in the field in what is commonly known as "thirteen hill square" shocks until required for feeding, and was fed whole. Of course the ears were carefully removed before the fodder was offered to the cattle. Undoubtedly the small fodder of the north or the finer material grown especially for fodder would have a higher palatability and perhaps a higher feeding value, but it is this large coarse material that is mainly wanted, and the results of these experiments are therefore directly applicable to the ordinary conditions of the state and the corn-growing section of the country.

TWO-YEAR-OLD STEERS ON FULL FEED.

First trial, December, 1899, to April, 1900, 119 days, four 2-year-old steers in each lot, full feed on shelled corn:

Timothy Hay Lot—Corn eaten, 9,331 pounds, or 166½ bushels; hay eaten, 3,313 pounds; total gain, 922 pounds; average daily gain per steer, 1.60 pounds; grain required to make a pound of gain, 11.4 pounds; gain per bushel of corn, 4.31 pounds.

Corn Fodder and Clover Hay Lot—Corn eaten, 10,335 pounds, or 186 bushels; corn fodder eaten, 1,889 pounds; clover hay eaten, 1,633 pounds; total gain per lot, 917 pounds; average daily gain per steer, 1.54 pounds; grain required per pound gain, 11.3 pounds; gain per bushel of corn, 4.58 pounds.

In this trial the steers on corn and timothy hay made a gain of 902 pounds, or 1.59 pounds; hay eaten, 3,313 pounds; on equal parts corn fodder and clover hay gained 917 pounds, or 1.54 pounds daily per steer. The grain required to make a pound of gain was on the timothy lot 11.6 pounds, and with the fodder and clover lot, 11.3 pounds. A bushel of corn made 11.3 fed with timothy 4.31 pounds of beef, and when combined with equal parts of fodder and clover, 4.58 pounds.

Second trial, January 6 to April 16, 1901, 100 days, four two-year-old steers in each lot, full feed on shelled corn.

Timothy Lot—Corn eaten, 8,339 pounds, or 150 bushels; hay eaten, 2,550 pounds; total gain, 739 pounds; average daily gain per steer, 1.37 pounds; grain per pound of gain, 11.2 pounds; gain per bushel of corn, 5.16 pounds.

Corn Fodder and Clover Hay Lot—Corn

eaten, 9,469 pounds, or 169 bushels; corn fodder eaten, 988 pounds; clover eaten, 2,475 pounds; total gain, 1,149 pounds; average daily gain per steer, 2.35 pounds; grain per pound of gain, 8.3 pounds; gain per bushel of corn, 6.75 pounds.

In this trial through an oversight the cattle were allowed practically all the clover they would eat, and as a result the amount of fodder eaten was comparatively small, which in a measure vitiates the results. But the striking difference in the gains made and in the cost of the gains cannot fail to be impressive and still further emphasize the superior value of clover as a feed and the importance of using this roughness in full feeding.

It will be noted that in this experiment a bushel of corn produced five pounds of gain when combined with timothy, and 6.75 pounds when fed in connection with clover and corn fodder—a difference of 1.75 pounds, which at \$5 per 100 means 8½ cents per bushel of corn.

(To be continued.)

BEEF BREDS AT THE FAIR.

The magnificent exhibit of beef cattle at the State Fair has excited much comment and admiration from competent quarters, and will materially add to the reputation of Missouri as one of, if not the greatest, cattle raising states in the Union. This, with the position already achieved as the foremost swine-grower of the country, cannot fail to bring our state more prominently into notice as containing all the elements of successful farming—either with stock, grain or fruit raising.

The "Breeders' Gazette," a fully competent authority, thus comments upon the quality and extent of the cattle exhibit at the Fair:

"THE SHORTHORNS.—G. M. Casey, Clinton, Mo., and his herd manager, E. B. Mitchell, are jubilant. T. J. Wornall & Son, Liberty, Mo., are well satisfied. Frank W. Harding, Waukegan, Wis., is confident. Their destinations and shape their somewhat in accordance with the conjecture offered. Mr. Casey certainly has occasion to feel just right. He had show cattle on the grounds, if ever prize-winners were produced, and they were in excellent condition, with the exception of choice goods. He was preoccupied with his better than his usual attractive breeding stuff, yet he may be relied on to make an imposing show and, according to the results last week, win the highest honors without taking on a hundred pounds or so. And that much additional weight would materially improve him in some points at which Short-horns are weak, and which are choice goods went down to Tebo Law to make probable the production of a calf crop from Mr. Casey's great galaxy of matrons that should inscribe indelibly his name on the tablets of history. He has been generously used with that object in view, and the processes of stretching his skin with fat have been vigorous. He appears this year as Choice Goods the stock of the best type, yet she began the campaign in a company that all judges may not see alike. Cicely and Clarissa were sent forward in plenty of flesh. Tebo Law's show herd is a rare one.

T. J. Wornall & Son are on the circuit with material to win. Their show herd is headed by Valley Count, that stood second to Frank Harding's Nonpareil of Clover Blossom in the two-year-old bull class. Considering that A. Alexander's Lord Darnley was in the same ring, the Grassland bull assumes additional showy fame. Another animal that will distinguish the Wornall herd this season is Ravenswood Admiration, by Lavender Viscount. This red chap is a duplicate of his renowned sire, making allowance for the difference in age. Whenever he enters the ring there will be a contest if his opponents are as good as they grow. Aged Bulls—First to G. M. Casey on Chesnut Good; second to Geo. Harding & Son on Golden Victor; third to E. W. Bowen on Speculator. Two-year-olds—First to Harding on Nonpareil of Clover Blossom; second to T. J. Wornall & Son on Valley Count; third to A. Alexander on Lord Darnley. Yearlings—First to Casey on Prince of Tebo Law; second to T. K. Tomson & Sons on Darling Knight; third to Harding on Cavalier Archer. Calves—First to Wornall on Ravenswood Admiration; second to Tomson on Belled Knight; third to Casey on The Rustler. Champion Bull—Choice Goods. Aged cows—First to Casey on Roberta; second to Bowen on Missie 18th; third to Harding on 5th Duchess of Gloster. Knight; third to Bowen on Onondaga; third to Harding on Golden Fame's Belle. Yearlings—First to Bowen on Queen of Beauty; second to Harding on Gloster Girl; third to Wornall on Peach. Calves—First and second to Casey on Sweet

Violet 4th and Runaway Girl; third to Wornall on Queen Louise. Champion cow—Roberta. Exhibitors—First to Casey; second to Harding; third to Bowen; fourth to Alexander. Young herd—First to Wornall; second to Tomson; third to Harding. Produce of cow (two)—First and second to Casey; third to Harding. Get of bull (four)—First to Wornall on Viscount of Anoka; second to Casey on Alice's Prince; third to Tomson on Gallant Knight.

THE HEREFORDS. Missouri admittedly foremost in the number of Hereford herds of cattle within its borders, and the character of the "white-faces" it produces is universally esteemed. It was no surprise, therefore, to behold at the Sedalia fair a Hereford display that equaled in representative excellence what it lacked in numbers. Only two herds sought rosettes, but the battle could scarcely have been a more trying one for the nerves of a judge than that which ensued every time Jimmie Price brought out a number of O. Harris' collection of show-yard kings and queens to associate with champions quite as select furnished by Gudge & Simpson. Ribbons were not tied in any of the classes in that formal manner sometimes observed in the show-yard when everything is going one man's way. H. C. Duncan studiously contemplated his subjects and frequently placed his trained hand upon rare lines and cushioned crops before consenting to un-bosom his preferences, which were uniformly well founded. His task was difficult. Both herds showed in tip-top condition, and in neither was there any other than genuinely good show cattle. Mr. Duncan found that he needed assistance before he had finished, and imported Omer C. Bigler of the famous Iowa Short-horn breeding firm to come to his aid.

Mr. Bigler assumed the job with his characteristic earnestness and intelligence, aided the senior judge into the Hereford cattle ended. Beau Donald 5th, a three-year-old 2,300-pound son of Beau Donald, had license to leave the fair as champion bull. He was bred in old Kentucky, and like many of the Kentucky folk who have gone over to Missouri, he has distinguished himself. We shall have more to say about him, as well as other members of both the Harris and Gudge & Simpson herds, after their appearance in the show-yard at Des Moines, where they will come in contact with perhaps the best show herd James A. Funkhouser ever bred. Detailed awards are appended:

Aged bulls—First (one entry) to O. Harris on Beau Donald 5th, by Beau Donald. Two-year-olds—First to Gudge & Simpson on Martine, by Aaron. Yearlings—First to Harris on Good Enough 2d, by Good Enough; second to Gudge & Simpson on Belarius by Millant. Calves—First to Gudge & Simpson on Rex Premier, by Danby; second to Harris on Cyclone, by Benjamin Wilton; third to Harris on Producer by Benjamin Wilton. Champion bull—Beau Donald 5th. Aged cows—First to Harris on Russett, by Royal Flush; second to Gudge & Simpson on Modesty 2d, by Beau Brummel; third to Gudge & Simpson on Mischievous, by Lampighter. Two-year-olds—First to Gudge & Simpson on Pretty Lady 2th, by Lampighter; second to Harris on Silver Cup, by Benjamin Wilton; third to Gudge & Simpson on Silver Lining, by Lampighter. Yearlings—First to Harris on Lucile 2d, by Benjamin Wilton; second to Gudge & Simpson on Modesty 2d, by Beau Brummel; third to Gudge & Simpson on Mischievous, by Lampighter. Two-year-olds—First to Harris on Kasie 4th, by Benjamin Wilton. Calves—First to Harris on Tess, by Benjamin Wilton; second to Gudge & Simpson on Honora 3th, by Dandy Rex; third to Harris on Sybil, by Benjamin Wilton. Champion cow—Russett. Exhibitor's herd—First to Harris; second to Gudge & Simpson. Young herd—First to Harris; second to Gudge & Simpson. Produce of cow (two)—First and second to Gudge & Simpson; third to Harris. Get of bull (four)—First to Harris; second to Gudge & Simpson.

ST. LOUIS NATIONAL STOCK YARDS.

Market Report Published by Evans-Sut-cland-Buel Company.

Receipts in round numbers and market conditions for week ending Saturday, Sept. 6, 1902, were as follows:

RECEIPTS.—Cattle, 29,900; hogs, 21,900; sheep, 15,000.

CATTLE.—Receipts in the native division were light, and included no choice or fancy grades. Demand for beef cattle was fairly good, but the tendency of prices was downward. Best grades here sold 16 to 18c lower; medium grades declined 20 to 30c. Best grades of corned and heifer butcher stuff were in good demand at about steady prices; medium grades ruled 15 to 16c lower than last week. Stocker and feeder receipts were liberal, and the quality was common; demand was weak for all classes. Best grades sold about steady, however; common trashy grades ruled irregularly lower. Good milk cows with calves were in good demand at strong prices; others ruled about steady. Full range for the week was 18 to \$25.00 per cow and calf; bulk \$30 to \$40. The veal calf market ruled steady; top for week was \$7.40; bulk of calves \$5.50 to \$6.75.

SPRING.—Receipts of steers of various weights are quotable as follows: Best native beef steers, strictly fancy cattle, 1,200 to 1,700 pounds average, \$3.25@3.75; choice export steers, 1,200 to 1,600 pounds average, \$7.75@8.50; good shipping and export steers, 1,300 to 1,600 pounds, \$7.25@8.00; fair to medium shipping steers, 1,500 to 1,600 pounds, \$6.75@7.25; Bismars, 1,200 to 1,250 pounds average, full range, rough to best, \$6.00@6.25; steers, 1,000 to 1,100 pounds average, full range, \$4.25@5.00, bulk of sales at 16.10@16.50; steers weighing less than

1,000 pounds full range \$4.00@7.00, bulk sold at \$1.25@1.50 feeding steers, fair to choice, 900 pounds and upwards, \$3.00@3.75, the bulk at \$2.50@4.40; common to choice stockers, \$2.25@4.75, bulk at \$2.00@3.85; stock heifers full range \$2.50@3.20 and the bulk at \$2.00@2.75. Fancy native heifers sell at \$5.75@6.25; there was very few on the market; choice native heifers sell at \$5.00@5.75; best native cows sell at \$4.75@5.25 and good heifers sell at \$4.25@4.50; medium cows at \$3.10@3.60; fair cows \$2.50@2.95; inferior, light and old cows \$1.50@2.50; the bulk of all the cows sold at \$2.00@3.00; canning cows sell at \$2.00@2.50. Veal calves, full range, \$4.00@7.40, per 100 pounds, bulk at \$2.00@4.75 per 100 pounds; heretics and yearlings sold at \$2.25@4.75 per 100 pounds, with the bulk at \$4.00@4.50. Bulls, full range, \$2.25@4.00, bulk of sales \$2.50@3.00. Stocker bulls sold at \$2.25@3.75, the bulk at \$1.00@2.25. During the week the milkers sold at a full range of \$18.00@22.00, bulk and calf, the bulk of sales being at \$20.00@24.00.

Although quarantine receipts were considerably heavier this week than last, steers and cows ruled steady all week, and closed practically the same as last week. The quality of the offerings did not compare very favorably with last week's. Under moderate arrivals, bulls closed 5 to 10c higher. All classes of fat cattle met with a good demand. Calf receipts were liberal, but the market held about steady, with best inquiry for light-weight, fat grades weighing 120 to 180 lbs.

During the week steers sold at a full range of \$2.40 to \$4.80, bulk \$2.25 to \$3.15, and heifers \$1.50 to \$3.75; bulk \$2.00 to \$3.15; stags and oxen, \$2.50 to \$2.90; bulk \$2.25 to \$2.75; calves 30 to 120 lbs per head; bulk \$1.50 to \$2.50.

HOGS.—The week opened with light receipts and higher prices. Wednesday and Thursday, under more liberal offerings, the early advance was lost. Friday, however, witnessed a reaction of 10c, and Saturday the market ruled steady. The grassy, half-fat hogs show little improvement. Saturday's clearance was effected at the following quotations: Butchers and prime heavies, \$7.00 to \$7.50; light mixed \$7.40 to \$7.50; heavy pigs \$6.50 to \$7.10; light pigs \$6.10 to \$6.50; rough heavies \$4.50 to \$5.50.

SHEEP.—Receipts for the week were liberal, and the quality did not average as good as usual, a large portion of the run consisting of southwest stuff; and under the above conditions a decline of 2c was forced on both sheep and lambs. A fair clearance was made at the close of the week at following values: Best sheep \$2.50 to \$2.75; best lambs \$5.00 to \$5.50; best bucks \$2.25 to \$2.50; stockers \$3.00 to \$3.50.

Monday, Sept. 8, 1902.—CATTLE.—Quarantine receipts were very heavy; cows ruled steady; steers declined about 10c. Under light receipts, natives sold steady to 10c lower.

HOGS.—Receipts were light, but prices were about 10c lower.

SHEEP.—This market was also lower, both grades bringing 15 to 25c less than last week's closing prices.

USE OF ROOTS IN CATTLE FEEDING.

In all parts of the old world the feeding ration of cattle include roots. In this country little attention is paid to them, though nearly all scientific feeders advocate their use. In the feeding of hives, roots are valuable, especially before the finishing period is reached. The amount to be fed each day must depend on the size of the steer, but to a 1,000-pound steer 50 pounds per day may be fed at first and this may be increased. As the time for finishing approaches, the daily allowance of roots should be decreased as the food affects the hardness of the flesh, too many roots making it soft. The best feeders advocate cutting the roots, slicing them, and mixing them with the forage, delaying feeding till the forage is moistened by the pulp.—Farmers' Review.

FARMER TO WORK STOCK FARM ON SHARON. Address 907 Wadsworth Building, St. Louis, Mo.

THE name of SAM W. COX was appeared to the readers of Colman's Rural World longer than any live-stock breeder in Shorthorn Cattle, 1813 Duke of Edinburgh 19201 in use. Up-to-date Poland China Hogs. Eggs from choice Plymouth Rocks. Write him again if you want anything at Greenfield, Mo., on R. C. & P. S. branch of Price System.

Pol. Durham Cattle, Duro-Jersey Hogs. Young stock of both kinds for sale. Inspection of the herd invited. Address: C. W. JOHNSON, Lexington, Mo.

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GRAND DISPERSION SALE ...OF THE OLD ESTABLISHED...

CRYSTAL SPRINGS HERD

